



AUGUSTA COUNTY FIRE-RESCUE

County Government Center 18 Government Center Lane P.O. Box 590, Verona, VA 24482

Main Office Line: (540) 245-5624 - Fax Line: (540) 245-5356

www.co.augusta.va.us
firerescue@co.augusta.va.us

December 30, 2013

1005 Technology Park Drive Glen Allen VA 23059-4500

Dear Mr. Thompson:

Please find enclosed a burn building grant application for the County of Augusta. This application is to use grant funds to conduct a repair/renovation project to our existing burn building that was placed into service in 2008. These repairs were recommended by TSG an engineering firm contracted by VDFP to conduct five year NFPA 1403 structural inspections on burn buildings in the Commonwealth. If the grant is approved it will facilitate the repair or addition of all items identified by TSG in their report to VDFP dated July 24 2013. The report number is VA11002-BB14 and a copy is supplied for your convenience. All requested documentation is supplied on the enclosed CD. We have estimated the cost of the concrete work and signage as we are working with our engineer to determine the scope of work required to complete the repair and VDFP on proper verbiage and size of the signage so our County sign shop can give us a quote. Please do not hesitate to contact me with any questions you may have.

rec

Sincerely

David Weaver Interim Captain

Department of Fire Programs

JAN 03 2013

JAN 03 2013

A ... Mintel games



Commonwealth of Virginia
Department of Fire Programs

ATTACHMENT A

ACCURING TABORN Building Grant Application Construction, Renovation, or Repair

A.	Applicant information	
1.	Title of Jurisdiction	X County of Augusta
	Making Application	City of
	(Check ☑ only one, then make entry)	Incorporated Town of
2.	Employer Identification Number	
	(EIN)	5 4 6 0 0 1 1 3 1
3.	Principal Point of Contact	(Include salutation, name & title.)
		Lieutenant David Weaver
4.	Mailing Address (Include zip code+4)	PO Box 590
		Verona, VA 24482-0590
	Identify COUNTY if appropriate →	Augusta
5.	Telephone Number	(540 245-5624
6.	FAX Number	(540 245-5356
7.	Internet e-mail address	dweaver@co.augusta.va.us
8.	Application Scope	X Sole Jurisdiction as identified in [A]
	(Check ☑ only one)	Multiple Jurisdictions - Complete [F]
		T Intuitible our suictions - Complete [F]
В.	Facility Information	The term "burn building" refers to an unoccupied structure.
	(Burn Building)	
	(Built Building)	The purpose of the Burn Building is to provide live fire training to fire
		service personnel in support of Fire Fighter I and Fire Fighter II
4	Current / Dranger d O	Training throughout the Commonwealth of Virginia.
1.	Current / Proposed Owner	(Party holding /to hold title to the property)
2.	of Facility In-Service Date or	County of Augusta
۷.		(Leave blank if NOT an existing structure as reported in [C1] below.)
	Age of Structure	Date 04/01/08 Unknown
3,		If unknown, enter approximate age in years
٥,	Address of Structure	180 Technology Dr.
	(If appropriate, identify COUNTY	Staunton, VA 24401-3575
	where located.)	Augusta
4.	Will the renovation or repair bring the	the burn building into compliance with the current standard of NFPA
	1403, including appropriate NFPA 14	
_	If no, explain in 6. Comments.	X Yes No N/A
5.	Will the construction of the burn build	ling be in compliance with the current edition of Sections I through IV of
	the Summary of Burn Building Prop (Grant Program as included in the VDFP Project Manual for Burn
	Building Props and the current standa	
_	If no, explain in 6. Comments.	Yes No X N/A
6.	Comments (pertaining to Facility)	None
	Project is renovation and repair	r to existing facility so question 5 does not apply.
	This project will bring the buildi	ng into compliance with all recommendations made by
	TSG during it's 5 year inspection	on per VDFP Report # VA11002-BB14

JAN 03 2013

C.	Facility Usage	Admit
1,	Number of annual burns	VDFP FFI burns Administration 5
	(must be documented)	(in compliance with NFPA 1403 standards)
		VDFP FFII burns 2
	(for New construction, this figure is projected)	(In compliance with NFPA 1403 standards)
	projectory	
		Other Burns 5
		(specify types of burns)
2.	Travel to another facility	Distance traveled to closest alternate facility 19.57
	Travel to another facility	(In miles)
		(III Tillico)
		Time traveled to closest alternate facility 22
		(rounded to whole hours)
3.	Other localities served	Name of Locality City of Staunton
0.0	(list number of stations and number of	Number of stations 2
	firefighters served for each locality)	Number of Firefighters 30
	(for New construction, this figure is projected)	Name of Locality City of Waynesboro
	projection	Number of stations 1
		Number of Firefighters 32
	(if more than 5 localities are served, additional	
	localities must be included on Additional Localities Served tab)	Name of Locality County of Augusta
	2002,000 00,102 122)	Number of stations 22
		Number of Firefighters 535
		Name of Locality Wintergreen FD
		Number of stations 3
		Number of Firefighters 48
		Name of Locality
		Number of stations
		Number of Firefighters
		TOTAL NUMBER OF STATIONS SERVED (from above and add')
1		TOTAL NUMBER OF FIREFIGHTERS SERVED (from above and add') 645
4.	Maintenance of facility	Annual Maintenance Inspections X Yes No
	,	(documentation of annual inspections MUST be provided with application for
	(for New construction, skip Section C.4.	inspections conducted after 12/2007)
	Section E.2. MUST be completed)	De la Projection Van Van Van Van Van Van Van Van Van Va
1		Previous Repair Projects Yes X No
		(documentation MUST be provided with application for most recent repairs)

D.	Project Description	1			
1,	Level of work proposed		NEW Construction where no such structure previously existed		
	(Check ☑ only one)	V	1		
	,	0	RENOVATION of an existing burn building or substantially similar structure		
2.	Type of Building (proposed or existing)	X.	REPAIR of an existing burn building (up to \$10,000)		
۷.	Type of Building (proposed or existing)		Class A fuel Class B fuel Cla		
		35	2,596 Square Footage of Building (proposed or existing)		
			2 Number of Burn Rooms on 1st floor		
			1 Number of Burn Rooms on 2nd floor		
			For New Construction:		
			*If building plans deviate from Prototype I or II, applicant MUST define		
			building concept and include proposed plans with application.		
			For Renovations or Repairs:		
			*If building plans deviate from Prototype I or II, applicant MUST include		
			copy of existing building plans with proposed renovations/repairs.		
3.	Architectural and/or Engineering		Has an A/E study already been completed?		
	(A/E)		X Yes No Not Applicable		
	(Check ☑ only one for each)		If so, is a copy attached to this application?		
	10		X Yes No Not Applicable		
1.			Is this structure still in use for certification of FFI and FFII at the		
	Condemnation and/or fitness	time of application?			
	for use		X Yes No		
	N		If yes, is there currently a scheduled date to remove the		
	(Leave [C4] blank if this application is		structure from service? X Yes No		
	for totally new construction; otherwise		If yes, enter the month & year: 9/30/2014		
	Check ☑ only one for each statement,)		If not presently in service, has this structure been condemned		
			by a building official or other such entity legally empowered to		
	2/		If yes, is a copy of such order attached to this application?		
			Yes No X Not Applicable		

JAN 03 2013

E. Financial Plan 1. Project Budget (Capital Expend)		get must be attached to this application. ts, contractor estimates must be attached
a. Expense	 The second second second	
i. Estimated Cost of Construction (Enter or check ☑)	\$ 96,400.00	Unknown at time of application
ii. Estimated A/E Costs (Enter or check ☑)	\$ 4	Unknown at time of application
iii. Estimated Total Costs (Enter or check ☑)	\$ 96,400.00	Unknown at time of application
b. Revenue		
 Grant Funding Being Requested New construction maximum \$430,000 	\$ 96,400.00	
ii. Matching / Cost Share Funds	\$ -	
III. Source of Matching Funds (local contributions, donations, etc.)		
2. Operating Budget (Maint. Expend)		h
a. Is there a financial agreement among partnering localities?	 Yes	No X Not Applicable
b. Is there a local budget for annual maintenance costs?	X Yes	No
c. Is there a local budget for annual inspection costs?	X Yes	No
d. Is there a local budget for 5-year inspection costs?	X Yes	No

JAN 03 2013

F.	Additional Parties of Interest (Mark N/A and skip section [D] if not applicable - see [A.8])	Identify hereunder ALL jurisdictions (Not their Departments) otherwise participating in the proposed project. Attach additional sheets as may be required.
1.	NON-Applicability	X No parties other than the jurisdiction identified in [A] above.
2.	Formal Agreement Among Parties	Is there a formal agreement among parties with regard to the proposed project? Yes No If yes, is a copy attached to this application? Yes No Is there a formal agreement among parties with regard to the shared use of the facility? If yes, is a copy attached to this application? Yes No
		y additional blocs as may be necessary for complete disclosure.)
2a.	Complete one each for ALL other Parties of Interest	Number of a total of parties to proposed project (Count the LEAD Locality as #1, thereby start with #2.)
2b.	Title of Jurisdiction (Check ☑ only one, then make entry)	County of City of Incorporated Town of
2c.	Employer Identification Number	
2d.	(EIN) Principal Point of Contact	(Include salutation, name & title.)
2e.	Mailing Address	(Include zip code+4)
	Identify COUNTY if appropriate →	
2f.	Telephone Number	
2g.	FAX Number	
2h.	Internet e-mail address	

JAN 03 2013

	The second secon	The state of the s
G.	Electronic Transfer	Note 🕶 The completion of this section is optional at the time of
	of Funds Information	application and will not hinder determination of eligibility, etc. However, if
	211112	not provided and since funds will only be transferred electronically,
		disbursement will be delayed until this information is properly provided.
1.	Account Ownership Information	
	Employer Identification Number	54-6001131
		SSN may NOT be substituted.
	Complete next three (3) ent	tries ONLY if Name is different than ACCOUNT TITLE as it appears in [E2].
		(Last, First, Initials)
	NAME	COUNTY OF AUGUSTA MASTER DEPOSITORY
		(Telephone Number)
	MAIN	540-245-5660
		(Telephone Number)
	ALTERNATE	According to the second
2.	Direct Deposit Account Information	
	(Check ☑ one Type of Account)	Checking Savings
	- 	
	ROUTING TRANSIT NUMBER	(9 digits) 0 5 1 4 0 4 4 6 4
	ROUTING TRANSIT NUMBER	03.101.107
	ACCOUNT NUMBER	70005210
	ACCOUNT TITLE	COUNTY OF AUGUSTA MASTER DEADSITOR
	FINANCIAL INSTITUTION	- FIRST BANKI TRUST

JAN 03 2013



Note This section of the application MUST be properly executed for the application to be complete. Certification may be completed by:

- City Manager /or/ Deputy
- · County Administrator /or/ Deputy
- Town Manager /or/ Mayor
- Or other duly authorized official but only when the application is accompanied by a copy of an 'Ordinance' or other formal instrument clearly granting that party such authority.

JAN 03 2013

Page 7 of 7

Only completed applications can be acted upon :

CERTIFICATION

ARY PUBLISHED

This application is made on behalf of the jurisdiction above described [A] with the full knowledge and belief that all representations herein made are true and correct. Patrick Coffield **County Adminstrator** Printed Name (All applications must be notarized to be considered - incomplete forms shall be returned.) State of Virginia City / County of Augusta On this 30 day of Dec (month) in 20/3 (year), before me, the undersigned a Notary Public for the Commonwealth of Virginia, personally appeared Potrick Co known (or to me proved) to be the identical person named herein and having in my presence executed the above, and acknowledged that he executed same as his voluntary act and deed. My Commiss {Seal} Department of Fire Programs

Report Item Number	Description	Cost of Repair
1 and 5	Cracked Padgenite and extend celings	\$57,346.00
2 and 7	Repair Concrete in building and Vertical face	\$8,500.00
3	Replace roofing materials with fire redardant treated materials	\$22,031.00
4	Repalce rusted anchor bolt	\$113.00
6	Replace window handle	\$31.00
9	Addition of central data recorder using existing thermocouplings	\$3,081.00
10	New Signage with correct verbiage	\$1,000.00
	Replace ship ladder from top of tower to roof	\$4,298.00

JAN 03 2013

Administrate



THINK : DESIGN : BUILD

AUGUSTA COUNTY FIRE TRAINING SIMULATOR EVALUATION 180 TECHNOLOGY DRIVE - AUGUSTA COUNTY, VA

REPORT ISSUE DATE:

12.23.2013

PROJECT NAME:

AUGUSTA COUNTY FIRE TRAINING TOWER

S&A PROJECT ID:

13-151

INSPECTION DATE:

12.11.2013

PRESENT:

JAMES R. SCHNITZHOFER, P.E.

CHRIS SHAVER

REGARDING:

STRUCTURAL EVALUATION

Dear Chris:

Per your request, a licensed structural engineer from Schnitzhofer & Associates, LLC (S&A) visited the project site located at the above listed address on December 11, 2013. Per our email correspondence with you prior to the site visit, we understand that there is concern regarding the structural adequacy of the in-place fire training tower. Specifically, we understand that your fire training tower has been inspected by an independent structural engineering firm, and that the findings outlined within their report may suggest that there are structural deficiencies within the structure. Furthermore, we understand you are requesting that S&A complete a site visit/visual evaluation at the physical structure and provide a structural evaluation letter outlining our opinion regarding the structural adequacy of the fire training tower. During the site visit, our representative conducted a visual assessment of the exposed interior and exterior framing conditions, in the interest of evaluating the structure. Based upon our site visit and review of the project documents, we offer the following:

PROJECT DOCUMENTS

- 1. Foundation & Design Calculations: Christopher E. Orlando, Dec 1, 2006.
- 2. Design Calculation Index: Christopher E. Orlando, 12/12/06.
- 3. Structural Drawings S0, S1 & S2: Christopher E. Orlando, Nov 30, 2006.
- 4. "For Construction" Documents: Christopher E. Orlando, 12/12/06.
- 5. "Summary of Deficiencies": The Structures Group

STRUCTURAL REVIEW ITEMS

- 1. Spalling and Cracking Concrete
 - a. Concrete Curb
 - b. Elevated Slabs
 - c. Grade Supported Slabs
- 2. Concrete Pedestal at Exterior Balcony Post
- 3. Anchor Bolt Connections at Cold Formed Metal Stud Columns

OBSERVATIONS & FINDINGS

1. Spalling and Cracking Concrete

- a. Concrete Curb: Spalling, cracking, deterioration, settlement, or damage of any type was not visibly evident at any location along the perimeter "concrete curb" of the subject structure during the time of the site visit (See Figure 1). Furthermore, based upon our review of the structural document Sheet SO, "General Notes and Details" by Behlen Industries, LP, dated Nov 30, 2006, concrete exposed to exterior elements shall be air entrained. Therefore, it is our opinion that the in-place concrete is properly specified to resist freeze thaw damage. Additionally, per Sheet SO "General Notes and Details", the concrete cover requirements per 4G appear to adequately protect the reinforcing steel within the wall. Based upon our review of the above listed documents, it is the opinion of Schnitzhofer & Associates, LLC that the in place perimeter "concrete curb" is not experiencing visible damage, is properly specified within the signed and sealed "General Notes" for this project, and shall not be in need of structural repair and/or reinforcement at this time.
- b. Elevated Slabs: The in place elevated concrete slabs are experiencing minor cracking, visible at the walking surface, at various locations within the building (See Figure 2). Based upon our visual evaluation of the existing floor cracks, in addition to our cursory review of the "For Construction" documents, it is the opinion of Schnitzhofer & Associates, LLC that, combined with basic understanding of the principles behind the design of the concrete-over-metal-deck system used, the cracks within the elevated slab are a result of anticipated expansion and/or contraction within the slab, are not structural in nature, are propagating and located in close proximity to where we would anticipate them, and do not represent a structural deficiency within the

Augusta Fire Rescue Tower - Structural Assessment Mr. Chris Shaver December 23, 2013 - S&A ID 13-151 3 | P a g e

elevated slab with regards to the ability of the slab to safely support the anticipated loads expected for the subject structure.

c. Grade Supported Slab: The in place grade supported slabs (interior and exterior) are experiencing minor cracking, visible at the walking surface, at various locations within or around the building footprint (See Figure 3). Based upon our visual evaluation of the existing concrete cracks, it is the opinion of Schnitzhofer & Associates, LLC that, combined with our visual site evaluation and cursory study of the project specifications, the cracks within the slabs are a result of anticipated expansion and/or contraction within the slabs, are not structural in nature, are propagating and located in close proximity to where we would anticipate them, and do not represent a structural deficiency within the slabs with regards to the ability of the slab to safely support the anticipated loads expected for the subject structure.

2. Concrete Pedestal at Exterior Balcony Post

The in place concrete pedestal supporting the galvanized steel balcony post at the east façade is experiencing minor cracking below one anchor rod (See Figure 4). Based upon the anchor rod size, location, quantity and 11.5" embedment (Per 4/S2), it is the opinion of Schnitzhofer & Associates, LLC that the steel column and anchor rods will perform in a safe and effective manner under the loading conditions anticipated for a balcony structure of this type. Furthermore, it is out opinion that the cracked concrete pier/pedestal at this location is not in need of removal and/or replacement.

3. Anchor Bolt Connections at Cold Formed Metal Stud Columns

The in place steel anchor bolts, washers and nuts located at the connection of the cold-formed metal stud column to the foundation are experiencing medium to severe corrosion at various locations (See Figure 5). Based upon our visible evaluation of the corroded anchor rods, we recommend that these anchors be mechanically cleaned to allow for further visual assessment. Upon determination that the anchors corroded are in excess of what is structurally acceptable, it is the recommendation of Schnitzhofer & Associates, LLC that the damaged anchor bolts, washers and nuts be repaired or reinforced as determined by a structural engineer licensed in the Commonwealth of Virginia.

Augusta Fire Rescue Tower - Structural Assessment Mr. Chris Shaver December 23, 2013 – S&A ID 13-151 4 | P a g e

LIMITATIONS

While Schnitzhofer & Associates, LLC has completed a structural evaluation of the above listed items, we were unable to evaluate, in any way, the existing framing, foundation and soil composition, or the building conditions that were not visible during the time of the site visit, or specifically listed within the scope of this report.

Schnitzhofer & Associates, LLC is pleased to provide this structural evaluation report with regards to your Augusta County Fire Training Simulator in Augusta County, VA. Please contact me directly at 448.8321 with any questions.

Sincerety,

James Ray Schnitzhofer P.E.

President

APPENDIX

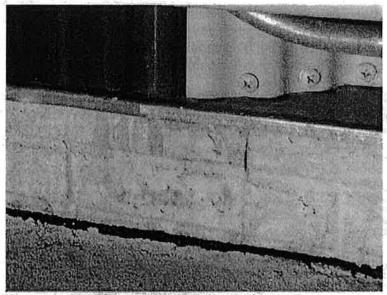


Figure 1: Concrete Curb at Building Perimeter Base.

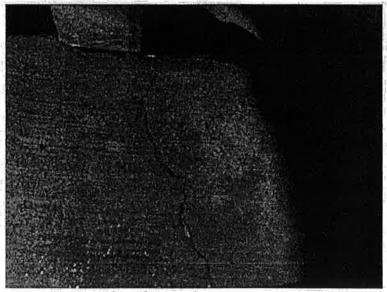


Figure 2: Expansion/Contraction Cracks at Elevated Concrete Deck.



Figure 3: Concrete Grade-Supported Slab,



Figure 4: Concrete Pedestal at Exterior Balcony Post.



Figure 5: Anchor Rods at Cold-Formed Steel Columns



March 18, 2013

Q13-108

Augusta County Fire and Rescue Chris Shaver, BS Captain/EMT-I 18 Government Center Lane Verona, VA 24482

Phone: 540-245-5624 Ext-6 Email: cshaver@co.augusta.va.us

Re: Repair Proposal for Training Facility

Dear Captain Shaver,

We are pleased to provide you with the following proposal for repairs and upgrades of your burn building. WHP Trainingtowers will provide all materials, freight, labor, tools and equipment necessary for the proper completion of the repairs and upgrades. The repairs and upgrades would consist of the following:

- Tighten and adjust all door and shutter hardware. Replace burn room interior handle. \$507.00
- Replace 3'x4' Super Padgenite on burn room #2 window shutter. \$499.00
- Replace One (1) burn room door slab. \$1,152.00
- Prep and paint rusted areas of roof trusses. \$740.00
- Extend ceilings in Burn Room 1&3, \$51,183.00
- Reset Standpipe. \$248.00
- Repair roof chain gate. \$164.00
- Reseal guard rail mounting bolts. \$658.00
- Install garage door flashing. \$491.00

A one-time trip charge of \$2,809.00 will apply.

All pricing is in US Dollars and is valid for 30 days.

Exclusions: We exclude from our proposal: taxes, permits, special insurance requirements if any, mechanical, electrical, dumpster, and general condition items and any other miscellaneous fees.

Schedule: Our schedule will be 2 weeks to prepare shop drawings. 2-3 weeks to assemble parts. 1 week for delivery to site. 6-8 days for installation.

Terms: Net 30. A deposit of 25% on materials is due on receipt of order (signing of contract). Balance of payment on materials due on delivery to site. No retention on materials. Labor will be billed monthly. Invoices not in dispute over 30 days will be assessed 1 ½ % per month on balances in excess of 30 days.

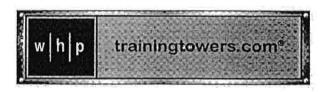
We hope you find the proposal acceptable. If we can provide you with further information please feel free to call.

Sincerely,

Bob Pottberg

Bob Pottberg WHP Trainingtowers 800-351-2525

Cc: Jim Eicholtz



November 7, 2013 Q13-405

Augusta County Fire and Rescue Chris Shaver, BS Captain/EMT-I 18 Government Center Lane Verona, VA 24482

Phone: 540-245-5624 Ext-6 Email: cshaver@co.augusta.va.us

Re: Repair Proposal for Training Facility

Dear Captain Shaver,

We are pleased to provide you with the following proposal for repairs and upgrades of your burn building. WHP Trainingtowers will provide all materials, freight, labor, tools and equipment necessary for the proper completion of the repairs and upgrades. The repairs and upgrades would consist of the following:

Remove existing railing, shingles, trim, flashing and plywood from gabled roof and install 18ga galvanized
 "A" deck, trim, flashing and railing. Materials, Freight and Labor (Item #3)
 \$22,031.00

Install Super Padgenite HD outside five (5) interior doors and outside two (2) windows.
 Materials, Freight and Labor (Item #5)
 \$ 6,163.00

One (1) Interior "D" Handle. Materials only (Item #6)
One (1) Shutter Hold Open Device. Materials only
5.00
26.00

One (1) Movable Maze Turnbuckle Assembly. Materials only
 \$ 113.00

One (1) Vertical Ladder (replacement for ships ladder) Materials, Freight and Labor
 798.00

• Extend ceilings in Burn Room 1&3. Materials, Freight and Labor \$51,183.00

Any and all repairs must be done on same trip.

All pricing is in US Dollars and is valid for 30 days.

Exclusions: We exclude from our proposal: taxes, permits, special insurance requirements if any, mechanical, electrical, dumpster, and general condition items and any other miscellaneous fees.

Schedule: Our schedule will be 2 weeks to prepare shop drawings. 2-3 weeks to assemble parts. 1 week for delivery to site. 6-8 days for installation.

Terms: Net 30. A deposit of 25% on materials is due on receipt of order (signing of contract). Balance of payment on materials due on delivery to site. No retention on materials. Labor will be billed monthly. Invoices not in dispute over 30 days will be assessed 1 ½ % per month on balances in excess of 30 days.

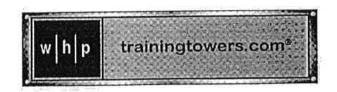
We hope you find the proposal acceptable. If we can provide you with further information please feel free to call.

Sincerely,

Bob Pottberg

Bob Pottberg WHP Trainingtowers 800-351-2525

Cc: Jim Eicholtz



October 18, 2013

Q13-379

Augusta County Fire and Rescue Chris Shaver, BS Captain/EMT-I 18 Government Center Lane Verona, VA 24482

Phone: 540-245-5624 Ext-6 Email: cshaver@co.augusta.va.us

Re: Temperature Monitoring Proposal for Training Facility

Dear Captain Shaver,

We are pleased to provide you with the following proposal for a new temperature monitoring device. WHP Trainingtowers will provide all materials, freight, labor, tools and equipment necessary for the proper completion of the repairs and upgrades. The repairs and upgrades would consist of the following:

Option #1: Wireless Temperature Monitoring without Laptop Computer \$2,328.00

Option #2: Wireless Temperature Monitoring with Laptop Computer \$3,081.00

Option #3: Audio/Visual Alarm system: \$1,118.00

Note: Existing thermocouples must be in working condition.

All pricing is in US Dollars and is valid for 30 days.

Exclusions: We exclude from our proposal: taxes, permits, special insurance requirements if any, mechanical, electrical, dumpster, and general condition items and any other miscellaneous fees.

Schedule: 2-3 weeks to assemble parts. 1 week for delivery.

Terms: Net 20. Invoices not in dispute over 30 days will be assessed 1 ½ % per month on balances in excess of 30 days.

We hope you find the proposal acceptable. If we can provide you with further information please feel free to call.

Sincerely,

Bob Pottberg

Bob Pottberg WHP Trainingtowers 800-351-2525

Cc: Jim Eicholtz

